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EXAMINER

NOTICE OF ALLOWANCE AND FEE(S) DUE

20583

NEW YORK, NY 10017

JONES DAY **222 EAST 41ST ST**

7590

11/30/2009

HAVAN, THU THAO

ART UNIT

PAPER NUMBER

3695

DATE MAILED: 11/30/2009

	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
•	09/845,220	04/30/2001	Gilles O. Zumbach	10366-008	3844

TITLE OF INVENTION: METHODS FOR ANALYSIS OF FINANCIAL MARKETS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0	\$1055	03/01/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current **SMALL ENTITY status:**

A. If the status is the same, pay the TOTAL FEE(S) DUE shown

B. If the status above is to be removed, check box 5b on Part B -Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless correcte maintenance fee notificate	correspondence including below or directed oth tions.	ng the Patent, advance onerwise in Block 1, by (orders and notification of n a) specifying a new corres	naintenance fees will pondence address; a	l be mailed to the current nd/or (b) indicating a sep	correspondence address as arate "FEE ADDRESS" for
		ock 1 for any change of address)	Fee(s) Transmittal. This (rs. Each additional p	certificate cannot be used t	or domestic mailings of the for any other accompanying ent or formal drawing, must
JONES DAY 222 EAST 41ST NEW YORK, N		/2009	I her State addr trans	Certify that this see Postal Service with essed to the Mail Smitted to the USPTC	Ticate of Mailing or Trans Fee(s) Transmittal is bein h sufficient postage for fir Stop ISSUE FEE address O (571) 273-2885, on the c	smission g deposited with the United st class mail in an envelope above, or being facsimile late indicated below.
						(Depositor's name)
			_			(Signature)
	_					(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	Α	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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nonprovisional	YES	\$755 	\$300	\$0	\$1055	03/01/2010
EXAM	INER	ART UNIT	CLASS-SUBCLASS			
HAVAN, T	HU THAO	3695	705-035000			
"Fee Address" ind. PTO/SB/47; Rev 03-0 Number is required.	ND RESIDENCE DATA less an assignee is ident h in 37 CFR 3.11. Comp	" Indication form led. Use of a Customer A TO BE PRINTED ON	(1) the names of up to or agents OR, alternativ (2) the name of a single registered attorney or a 2 registered patent attorlisted, no name will be THE PATENT (print or type data will appear on the part a substitute for filing and (B) RESIDENCE: (CITY)	ely, e firm (having as a m gent) and the names neys or agents. If no printed. e) etent. If an assignee assignment.	nember a 2of up to o name is 3 is identified below, the d	locument has been filed for
Please check the appropr	iate assignee category or	categories (will not be p	rinted on the patent):	Individual 🖵 Corp	poration or other private gr	oup entity 🗖 Government
	are submitted: To small entity discount p # of Copies	permitted)	4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) ☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).			
	tus (from status indicates s SMALL ENTITY statu				ENTITY status. See 37 C	FR 1.27(g)(2).
NOTE: The Issue Fee and interest as shown by the i	d Publication Fee (if req records of the United Sta	uired) will not be accepte tes Patent and Trademark	ed from anyone other than the Office.	ne applicant; a registe	ered attorney or agent; or the	he assignee or other party in
Authorized Signature				Date		
Typed or printed name	e			Registration No.		
This collection of inform an application. Confident submitting the completed this form and/or suggesti	ation is required by 37 C tiality is governed by 35 d application form to the lons for reducing this bu	CFR 1.311. The information U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the	on is required to obtain or r 1.14. This collection is est y depending upon the indiv the Chief Information Office	etain a benefit by the mated to take 12 mi dual case. Any com r, U.S. Patent and Tr	public which is to file (an nutes to complete, including ments on the amount of ti- ademark Office, U.S. Den	d by the USPTO to process) ng gathering, preparing, and me you require to complete artment of Commerce, P.O.

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20583 7	75 90	11/30/2009		EXAMINER			
JONES DAY				HAVAN, THU THAO			
222 EAST 41ST S				ART UNIT	PAPER NUMBER		
NEW YORK, NY 10017			•	3695			
				DATE MAILED: 11/30/2009			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 1525 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 1525 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
	Application No.	Applicant(s)	
Notice of Allowability	09/845,220	ZUMBACH ET AL.	
Notice of Allowability	Examiner	Art Unit	
	THU-THAO HAVAN	3695	
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate commu GHTS. This application is s	this application. If not included nication will be mailed in due course. Th	
1. This communication is responsive to 7/22/09.			
2. 🔀 The allowed claim(s) is/are <u>1-25</u> .			
 3. ☐ Acknowledgment is made of a claim for foreign priority ur a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 	been received.		
3. Copies of the certified copies of the priority do	cuments have been received	I in this national stage application from t	he
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be subm	ENT of this application.		
INFORMAL PATENT APPLICATION (PTO-152) which give			
5. \square CORRECTED DRAWINGS (as "replacement sheets") mus	t be submitted.		
(a) \square including changes required by the Notice of Draftspers	on's Patent Drawing Reviev	v (PTO-948) attached	
1) ☐ hereto or 2) ☐ to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date			
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the			
6. DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT			
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5 Notice of In	ormal Patent Application	
 □ Notice of References Cited (PTO-692) □ Notice of Draftperson's Patent Drawing Review (PTO-948) 		immary (PTO-413),	
3. ☐ Information Disclosure Statements (PTO/SB/08),	Paper No./	Mail Date Amendment/Comment	
Paper No./Mail Date4. ☐ Examiner's Comment Regarding Requirement for Deposit		Statement of Reasons for Allowance	
of Biological Material	9. 🔲 Other		

Detailed Action

Drawings

The Examiner accepts the drawings filed on April 30, 2001.

Allowable Subject Matter

Claims 1-25 are allowed.

The following is an examiner's statement of reasons for allowance: The present invention generally discloses obtaining predictive information (e.g., volatility) for inhomogeneous financial time series. However, the prior arts of record fail to teach, singly or in combination, obtaining predictive information for inhomogeneous financial time series, comprising the steps of: constructing an inhomogeneous time series z that represents received financial market transaction data; constructing an exponential moving average operator EMA[τ :z]; constructing an iterated exponential moving average operator; based on said exponential moving average operator; constructing a time-translation-invariant, causal operator $\Omega[z]$ that is a convolution operator with kernel and that is based on said iterated exponential moving average operator; and electronically calculating in a computer values of one or more predictive factors relating to said time series z, wherein said one or more predictive factors are defined in terms of said operator $\Omega[z]$.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably Application/Control Number: 09/845,220 Page 3

Art Unit: 3695

accompany the issue fee. Such submissions should be clearly labeled "Comments on

Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Thu Thao Havan whose telephone number is (571) 272-8111. The

examiner can normally be reached on Monday-Friday from 6am-2pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Charles Kyle can be reached on (571) 272-6746. The fax phone number for the

organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct-uspto.gov. Should you have questions on access to the Private

PAIR system, contact the Electronic Business Center (EBC) at (866) 217-9197 (toll-free).

/Thu Thao Havan/

Primary Examiner, Art Unit 3695